

Title (en)  
TRANSMISSION GEAR BOX AND WHEELED VEHICLE PROVIDED WITH SUCH A TRANSMISSION GEAR BOX

Title (de)  
GETRIEBEGEHÄUSE UND RADFAHRZEUG MIT EINEM SOLCHEN GETRIEBEGEHÄUSE

Title (fr)  
BOÎTIER DE TRANSMISSION ET ENGIN ROULANT ÉQUIPÉ D'UN TEL BOÎTIER DE TRANSMISSION

Publication  
**EP 3959449 A1 20220302 (FR)**

Application  
**EP 20726221 A 20200316**

Priority  
• FR 1904288 A 20190424  
• FR 2020050570 W 20200316

Abstract (en)  
[origin: WO2020217016A1] Transmission gear box (1) comprising, at least partially accommodated in the housing (1), an output shaft (6), a rotating drive member (5) mounted to rotate freely about the shaft (6), a system (2) for rotating the rotating drive member (5) in forward and reverse gear and, arranged between the shaft (6) and the rotating drive member (5), a clutch mechanism (3) having an engaged state and a disengaged state, wherein the shaft (6) is free to rotate in any of the directions of rotation thereof, the automatic clutch mechanism (3) being configured, in forward gear, to shift from the disengaged state to the engaged state by rotating in forward gear the motor member (5) when the speed of rotation of the rotating drive member (5) is higher than that of the shaft (6), and from the engaged state to the disengaged state by rotating in forward gear the shaft (6) when the speed of rotation of the shaft (6) is higher than the speed of rotation of the rotating drive member (5). The clutch mechanism (3, 4) is also automatic in reverse gear.

IPC 8 full level  
**F16D 7/04** (2006.01); **A01D 34/68** (2006.01); **F16D 11/14** (2006.01); **F16D 41/18** (2006.01); **F16H 37/08** (2006.01)

CPC (source: EP US)  
**A01D 34/6812** (2013.01 - EP); **F16D 7/044** (2013.01 - EP); **F16D 11/14** (2013.01 - EP US); **F16D 41/16** (2013.01 - US); **F16D 41/185** (2013.01 - EP US); **A01D 34/6812** (2013.01 - US); **A01D 34/69** (2013.01 - US)

Citation (search report)  
See references of WO 2020217016A1

Cited by  
WO2024059177A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2020217016 A1 20201029**; EP 3959449 A1 20220302; EP 3959449 B1 20230823; FR 3095483 A1 20201030; FR 3095483 B1 20210409; US 12006988 B2 20240611; US 2022186793 A1 20220616

DOCDB simple family (application)  
**FR 2020050570 W 20200316**; EP 20726221 A 20200316; FR 1904288 A 20190424; US 202017605429 A 20200316